Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-12-26-02** **Date: 29-12-17**
Customer	:	Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.
Address	:	Bytarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/43/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-02/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-12-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.82	_
2	Finess by Air permeablity method (m^2/kg, Min)	268.9	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-12-26-02** **Date: 24-01-18**
Customer	:	Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.
Address	:	Bytarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/43/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-02/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	27-12-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-26-02** **Date: 29-12-17**
Customer	:	Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.
Address	:	Bytarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/43/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-02/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	718	718	4.8	95.2	90-100
3	20 mm	5291	6009	40.1	59.9	30-70
4	10 mm	4983	10992	73.3	26.7	10-35
5	4.75 mm	3281	14273	95.2	4.8	0-5
6	Pan	727	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-12-26-02** **Date: 29-12-17**

Sample ID No : 2017-12-26-02/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.55	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.21	_

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-26-02** **Date: 29-12-17**
Customer	:	Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.
Address	:	Bytarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer Reference	:	BBMP/EE/BTP/WO/43/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-02/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	287	287	5.7	94.3	90-100
3	10 mm	3112	3399	68.0	32.0	25-55
4	4.75 mm	1231	4630	92.6	7.4	0-10
5	Pan	370	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-12-26-02** **Date: 29-12-17**

Sample ID No : 2017-12-26-02/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.1**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.8**	
3	Specific Gravity	**2.68**	_
4	Bulk Density(Loose) (Kg/l)	**1.53**	_
5	Bulk Density(Compacted) (Kg/l)	**1.58**	_
6	Water Absorption(%)	**0.23**	_
7	Aggregate crushing Value(%)	**24.3**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**23.2**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-12-26-02** **Date: 29-12-17**

Customer : Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.

Address : Bytarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/43/2017-18

Source of Sample : Sample supplied by Agency

Sample Condit : Satisfactory

Date of Receipt : 26-12-17

Sample ID No : 2017-12-26-02/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 26-12-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	65	103	10.3	89.7	60-95	75-100	85-100	95-100
4	1.18 mm	163	266	26.6	73.4	30-70	55-90	75-100	90-100
5	600 micron	292	558	55.8	44.2	15-34	35-59	60-79	80-100
6	300 micron	298	856	85.6	14.4	5-20	8-30	12-40	15-50
7	150 micron	77	933	93.3	6.7	0-10	0-10	0-10	0-15
8	Pan	67	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-12-26-02** **Date: 29-12-17**

Sample ID No : 2017-12-26-02/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.27	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-12-26-02** **Date: 28-12-17**
Customer	:	Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.
Address	:	Bytarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/43/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-02/04
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	27-12-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe500	8	0.392	542	622	20.0%	Satisfactory	Satisfactory
2	Indus	Fe500	10	0.615	568	685	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-06-02** **Date: 08/01/2018**

Customer : Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.

Address : Bytarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/43/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-01-18

Sample ID No : 2018-01-06-02/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	01/01/2018	08/01/2018	150.22 X 150.34 X 150.30	22584	8.399	408.8	18.1	17.9
2	M20 Concrete	M20	01/01/2018	08/01/2018	150.28 X 150.36 X 150.29	22596	8.367	388.7	17.2	
3	M20 Concrete	M20	01/01/2018	08/01/2018	150.22 X 150.18 X 150.25	22560	8.321	415.1	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-01-06-02** **Date: 29/01/2018**
Customer	:	Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.
Address	:	Bytarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/43/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-18
Sample ID No	:	2018-01-06-02/02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	01/01/2018	29/01/2018	150.32 X 150.26 X 150.30	22587	8.376	506.0	22.4	22.9
2	M20 Concrete	M20	01/01/2018	29/01/2018	150.32 X 150.29 X 150.29	22592	8.360	528.6	23.4	
3	M20 Concrete	M20	01/01/2018	29/01/2018	150.32 X 150.35 X 150.28	22601	8.398	517.6	22.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-01-06-02** **Date: 08/01/2018**
Customer	:	Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.
Address	:	Bytarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/43/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-18
Sample ID No	:	2018-01-06-02/03
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	01/01/2018	08/01/2018	150.34 X 150.31 X 150.28	22598	8.378	381.9	16.9	17.1
2	M20 Concrete	M20	01/01/2018	08/01/2018	150.32 X 150.33 X 150.29	22598	8.382	388.7	17.2	
3	M20 Concrete	M20	01/01/2018	08/01/2018	150.31 X 150.37 X 150.28	22602	8.390	386.5	17.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-06-02** **Date: 29/01/2018**

Customer : Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.

Address : Bytarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/43/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-01-18

Sample ID No : 2018-01-06-02/04

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	01/01/2018	29/01/2018	150.34 X 150.30 X 150.38	22596	8.443	508.4	22.5	22.5
2	M20 Concrete	M20	01/01/2018	29/01/2018	150.43 X 150.41 X 150.39	22626	8.470	515.9	22.8	
3	M20 Concrete	M20	01/01/2018	29/01/2018	150.32 X 150.37 X 150.33	22604	8.465	501.8	22.2	

Note:

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R KARTHIK RECHAN
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Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-06-02** **Date: 08/01/2018**

Customer : Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.

Address : Bytarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/43/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-01-18

Sample ID No : 2018-01-06-02/05

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	01/01/2018	08/01/2018	150.38 X 150.34 X 150.35	22608	8.422	397.9	17.6	18.0
2	M20 Concrete	M20	01/01/2018	08/01/2018	150.29 X 150.26 X 150.24	22583	8.366	404.2	17.9	
3	M20 Concrete	M20	01/01/2018	08/01/2018	150.33 X 150.36 X 150.30	22604	8.431	415.9	18.4	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-01-06-02** **Date: 29/01/2018**
Customer	:	Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.
Address	:	Bytarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/43/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-18
Sample ID No	:	2018-01-06-02/06
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	01/01/2018	29/01/2018	150.22 X 150.27 X 150.29	22574	8.356	523.7	23.2	23.3
2	M20 Concrete	M20	01/01/2018	29/01/2018	150.35 X 150.37 X 150.30	22608	8.438	533.6	23.6	
3	M20 Concrete	M20	01/01/2018	29/01/2018	150.33 X 150.31 X 150.28	22596	8.412	522.0	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-06-02** **Date: 08/01/2018**

Customer : Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.

Address : Bytarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/43/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-01-18

Sample ID No : 2018-01-06-02/07

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	01/01/2018	08/01/2018	150.22 X 150.32 X 150.30	22581	8.397	388.4	17.2	17.6
2	M20 Concrete	M20	01/01/2018	08/01/2018	150.32 X 150.37 X 150.36	22604	8.443	404.6	17.9	
3	M20 Concrete	M20	01/01/2018	08/01/2018	150.39 X 150.40 X 150.31	22619	8.437	400.4	17.7	

Note:

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Ward No 6

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-06-02** **Date: 29/01/2018**

Customer : Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.

Address : Bytarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/43/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-01-18

Sample ID No : 2018-01-06-02/08

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	01/01/2018	29/01/2018	150.22 X 150.30 X 150.35	22578	8.390	521.6	23.1	23.1
2	M20 Concrete	M20	01/01/2018	29/01/2018	150.43 X 150.37 X 150.30	22620	8.453	513.5	22.7	
3	M20 Concrete	M20	01/01/2018	29/01/2018	150.32 X 150.30 X 150.31	22593	8.412	528.7	23.4	

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-01-10-02** **Date: 13-01-18**
Customer	:	Assistant Executive Engineer, Bytarayanapura Sub Division, BBMP, Bangalore.
Address	:	Bytarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in R.K Hegade Nagar 2nd Main 5th cross road in Ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/43/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-18
Sample ID No	:	2018-01-10-02/01
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	10/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.27	100.81	1.127	4449	72.9	16.4	15.2	19.0
2	Cover Slab-2	75.49	100.25	1.134	4475	76.3	17.1	15.9	19.8
3	Cover Slab-3	75.51	100.19	1.130	4477	76.8	17.2	16.0	19.9

Note:

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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